

# Receiving Report

Date:

17-01-24  
AVICEL

Batch No:

M 1366071  
35014.

Supplier:

Dart P/O:

Packing Slip: Yes  No   
Invoice: Yes  No   
Receipt: Cash  Cr   
New Supplier Yes  No

Release Note Attached: Yes  No  N/A   
Waybill Attached: Yes  No   
Shipment Complete: Yes  No  N/A   
QC18 Inspection \_\_\_\_\_  
Work Order \_\_\_\_\_

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO35014

Purchase Order Date 1/18/2017  
PO Print Date 1/18/2017

Page Number 1 of 2

Order From :

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

VU-AVI003

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

JAN 18 2017

*EMAILLED*

Contact Name  
Vendor Phone 905-676-1695

Buyer Chantal Lavoie  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency USD  
FOB EXW - (Ex Works)

Ship To Contact  
Ship To Phone  
Ship Via: FedEx Overnight collect  
Ship Acct:

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	156001-6D0121	Hose Assembly	1/23/2017 Yes 1/23/2017		2.00 Each	\$76.91	\$153.82
2	156001-6D0096	Hose Assembly	1/23/2017 Yes 1/23/2017		2.00 Each	\$74.03	\$148.06
3	71400-10	MAGNABOND 6398 A/B PINT SIZE	1/23/2017 Yes 1/23/2017		1.00 Each	\$60.46	\$60.46

78.90% SHELF LIFE 288 DAYS EXPIRES NOVEMBER 1  
2017

PO Instructions: Fedex Acc#151793240

Note:

# PACKING LIST



DELIVERY NUMBER: 8004028623

ROUTE: US FedEx International Priority

PAGE:1 of 1  
 DATE:20JAN17  
 TIME:13:44:01  
 EMP:00000000  
 ORD TYP: ZOR 169  
 CURRENCY:USD  
 TERMS:Net 30

CUSTOMER PO:35014  
 ORDER NUMBER:1002784530  
 ORDER DATE:18JAN17

B 10003952  
 DART AEROSPACE LTD  
 1270 ABERDEEN STREET  
 L HAWKESBURY ON K6A 1K7  
 CANADA

S 10003952  
 H DART AEROSPACE LTD  
 I 1270 ABERDEEN STREET  
 P HAWKESBURY ON K6A 1K7  
 CANADA

S 1000  
 H AVIALL CENTRAL WAREHOUSE  
 I DALLAS CDC  
 P 2750 REGENT BLVD  
 F DFW AIRPORT TX 75261  
 R USA

T O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	33	MAGNOBOND6398PT ADHESIVE: EPOXY,A/B,PT BATCH 7364407381	1	1	0	PT		60.46	60.46

This is not an Invoice.  
 For payment processing, please refer to Invoice.

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.  
 Diversion contrary to U.S. Law is prohibited.

CERTIFICATE OF CONFORMANCE  
 It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL RETURNED MERCHANDISE SUBJECT TO HANDLING FEE.  
 THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH THE PROVISIONS OF THE FAIR LABOR ACT OF 1938 AMENDED.

20JAN17  
 Date

CUSTOMER COPY



A BOEING COMPANY

AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261

# Commercial Invoice

Government Transaction Number
NOOEI FTR 30.36
Delivery Number
8004028623
Commercial Invoice Number
9305001564
Ship Date
20 January, 2017
Incoterms
EXW Shipping Point

Sold To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ultimate Consignee  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ship To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Freight Forwarder  FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	400010
Tax Number: 20-4734803							

Comments:

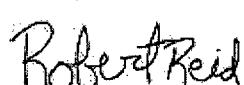
Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value USD	Extended Value USD
30 ✓	MAGN0B0ND6398PT - ADHESIVE: EPOXY,A/B,PT Export Tariff: 3506100000 Export Classification: EAR99 Authorization: NLRAT_JAN_2017 Sales Order: 1002784530 PO: 35014 Batch Number: 7364407381	US	1	PT	60.46	60.46

Gross Value	60.46
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	60.46

FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper AVIALL SERVICES INC 2750 REGENT BLVD DFW AIRPORT, TX, 75261 U.S.A.		Air Waybill No. 703410750747 Page 1 of 1 Pages  Shipper's Reference Number (optional) 8004028623			
Consignee DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON, K6A 1K7 Canada		Created using International Air regulations and FedEx carrier variations.  <b>LABELMASTER<sup>®</sup> SOFTWARE</b>			
Two completed and signed copies of this declaration must be handed to the operator.		<b>WARNING</b>  Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.			
<b>TRANSPORT DETAILS</b>  This shipment is within the limitations prescribed for: (delete non-applicable)		Airport of Departure:			
<table border="1"> <tr> <td>PASSENGER AND CARGO AIRCRAFT</td> <td>CARGO XXXXX AIRCRAFT XXXXXXX</td> </tr> </table>		PASSENGER AND CARGO AIRCRAFT	CARGO XXXXX AIRCRAFT XXXXXXX		
PASSENGER AND CARGO AIRCRAFT	CARGO XXXXX AIRCRAFT XXXXXXX				
Airport of Destination:		Shipment type: (delete non-applicable)  NON-RADIOACTIVE <input checked="" type="checkbox"/> X RADIATIVE <input type="checkbox"/>			
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b>					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack-ing Group	Quantity and type of packing	Packing Inst.
UN3267	Corrosive liquid, basic, organic, n.o.s. (AMINOETHYLPIPERAZINE SOLUTION)	8 ✓	III	1 Fibreboard Box x .25 L	852
<p style="text-align: right;">6/27/01-24</p>					
Additional Handling Information ICAO ERG CODE 8L (UN3267). Emergency Contact Name: CCN2132 . 24 hr. Emergency Contact Tel. No. 1-800-424-9300 // INTL +1-703-527-3887					
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.			Name/Title of signatory Robert Reid Hazardous Shipper Place and Date Dallas Tx, 75261 1/20/2017 Signature (see warning above) 		



4360 Northeast Expressway  
Atlanta, GA 30340

# Certificate Of Compliance

Packing Slip	ORD17659
Document Date	7/25/2016
Page	1

## Bill To:

AVIALL SERVICES, INC.  
P.O. BOX 619048  
DALLAS TX 75261-9048

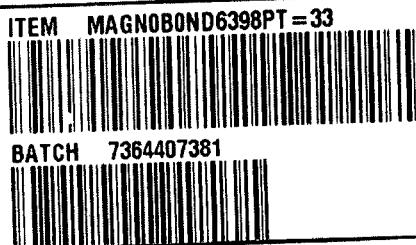
## Ship To:

AVIALL SERVICES, INC.  
AVIALL CENTRAL WAREHOUSE, DALLAS CDC  
2750 REGENT BLVD.  
DFW AIRPORT TX 75261-9048

(972) 586-1314 Ext. 0000

\* Item Shipped Directly from Vendor

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Order Placed By	Ship Date
45485013. ITEM 1	AVIAL001	INSIDE SALES	CEVA FRT COL	NET 30 DAYS	HEATHER FORDE	11/8/2016
80	80	0	6398-AB/1PT	MAGNOLIA 6398 AB 1 PINT KIT LOT# 16K01/16K01	4360	EA



GMOORE  
11/14/16

Instructions:  
\*\*DO NOT MIX LOT #\*\*  
M.S.D.S. REQUIRED / DATE OF MFG: 10/2016  
SPEC# 299-947-100, REV P, T-II, CL-2 / SHELF LIFE: 18 MOS  
FROM D.O.M. @ BELOW 40°F OR 12 MOS FROM D.O.M. @ 40-100°F  
SPEC# 299-947-359, REV A, T-I / SHLF LIFE: 06 MOS FROM S.D. @  
BTWN 80-100°F/09 MOS @ BTWN 60-80°F/12 MOS @ BELOW 40°F  
EXPIRATION DATE: (299-947-100): 04/2018 OR 10/2017  
EXPIRATION DATE: (299-947-359): 05/08/17 OR 08/08/17 OR 11/08/17

Magnolia Advanced Materials, Inc.

Signed:

Greg Bunn  
Technical Director

We certify that the above listed material meets the sales specifications as outlined by the manufacturing procedures of Magnolia Advanced Materials, Inc. and the above listed specification.

The materials process and formulation(s) have not been changed in any way from the original qualified material(s) without prior approval.

Unless otherwise indicated, the country of origin is the USA.

Shelf life certified and applicable on unopened, properly stored containers.



# Safety Data Sheet

Issuing Date 08-Oct-2015

Revision date 06-Nov-2015

Revision Number 5

## 1. IDENTIFICATION

Product identifier

Product name Magnobond 6398-A

Other means of identification

Product Code(s) 6398-A  
Synonyms Magnolia 6398-A

Recommended use of the chemical and restrictions on use

Recommended Use This product contains epoxy constituents that have an average molecular weight of less than or equal to 700.  
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address  
Magnolia Advanced Materials  
4360 NE Expressway  
Atlanta, GA 30344

Emergency telephone number

Company Phone Number (770) 451-2777  
Emergency telephone number INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)  
Account 79439

## 2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
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Label elements

Emergency Overview

**WARNING**

**Hazard statements**

May cause an allergic skin reaction



Appearance Gray

Physical state Paste/Gel

Odor Slight ethereal

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing must not be allowed out of the workplace  
 Wear protective gloves

IF ON SKIN: Wash with plenty of water and soap  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**  
 Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**  
 Not applicable

**Other Information**  
 Causes mild skin irritation Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity 55.2 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

Synonyms Magnolia 6398-A.

Chemical Name	CAS-No	Weight %	Trade secret
Trade secret	Proprietary	30-60	*
Aluminum	7429-90-5	25-50	*
Epoxy resin	Proprietary	5-15	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

General advice	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Remove from exposure, lie down. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products** None known based on information supplied.

## **8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No information available.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel	<b>Odor</b> <b>Odor threshold</b>	Slight ethereal No information available	
<b>Appearance</b>	Gray			
<b>Color</b>	No information available			
<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>		
PH	No information available			
Melting point / freezing point	No information available			
Boiling Point/Range	107.3 °C 225 °F			
Flash point	> 93.4 °C / > 200 °F			
Evaporation Rate	No information available			
Flammability (solid, gas)	No information available			
Flammability Limit in Air				
Upper Flammability Limit	No information available			
Lower Flammability Limit	No information available			
Vapor pressure	No information available			
Vapor density	No information available			
Relative Density	1.25			
Water solubility	Negligible			
Solubility in other solvents	No information available			
Partition coefficient: n-octanol/water	No information available			
Autoignition temperature	No information available			
Decomposition temperature	No information available			
Kinematic viscosity	No information available			
Dynamic viscosity	No information available			
Explosive properties	No information available			
Oxidizing properties	No information available			

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content</b>	Negligible
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Carbon oxides. Phenols. Aromatic hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Product Information</b>	The product has not been tested
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<b>Inhalation</b>	There is no data available for this product.
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<b>Eye contact</b>	There is no data available for this product.
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<b>Skin contact</b>	There is no data available for this product.
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<b>Ingestion</b>	There is no data available for this product.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Epoxy resin	= 11400 mg/kg ( Rat )		

**Information on toxicological effects**

<b>Symptoms</b>	No information available.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
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<b>MUTAGENIC EFFECTS</b>	No information available.
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<b>Carcinogenicity</b>	No information available.
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<b>Reproductive toxicity</b>	No information available.
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<b>STOT - single exposure</b>	No information available.
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<b>STOT - repeated exposure</b>	No information available.
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<b>Aspiration hazard</b>	No information available.
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**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	63,840.00 mg/kg
---------------	-----------------

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

46.4 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Other adverse effects No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum 7429-90-5	Ignitable (powder)

### 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III

ATA

<b>UN-No</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III

IMDG/IMO

<b>UN-No</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>EmS No.</b>	F-A, S-F

RID

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Classification code</b>	M6

ADR

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Classification code</b>	M6

### 15. REGULATORY INFORMATION

International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Complies

PICCS	Does not comply
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aluminum 7429-90-5	X	X	X

#### U.S. EPA Label Information

EPA Pesticide registration number Not applicable

### **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 2	Flammability 1	Physical hazards 0	Personal precautions B
Prepared by	Magnolia Advanced Materials, Inc. 4360 NE Expressway. Atlanta, GA 30340			
Issuing Date	08-Oct-2015			
Revision date	06-Nov-2015			
Revision note	No information available			
<u>Disclaimer</u>				

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS



# Safety Data Sheet

Issuing Date 06-Nov-2015

Revision date 06-Nov-2015

Revision Number 3

## 1. IDENTIFICATION

Product identifier

Product name Magnobond 6398-B

Other means of identification

Product Code(s) 6398-B

UN-No 3267

Synonyms Magnolia 6398-B

Recommended use of the chemical and restrictions on use

Recommended Use Amine curing agent.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Magnolia Advanced Materials

4360 NE Expressway

Atlanta, GA 30344

Emergency telephone number

Company Phone Number (770) 451-2777

Emergency telephone number INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

Account 79439

## 2. HAZARDS IDENTIFICATION

Classification

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

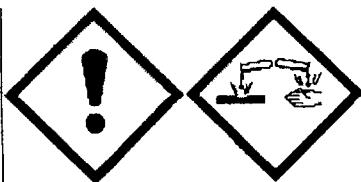
Label elements

Emergency Overview

DANGER

**Hazard statements**

HARMFUL IF SWALLOWED  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
May cause an allergic skin reaction



Appearance Off-white to amber

Physical state Paste/Gel

Odor Amine

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dusts or mists  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor  
 Call a POISON CENTER or doctor if you feel unwell  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity 0.002 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable

**Mixture****Synonyms****Formula**

Magnolia 6398-B.

Not Applicable-Mixture

Chemical Name	CAS-No	Weight %	Trade secret
Amine curing agent	Proprietary	30-60	*
Amine curing agent	Proprietary	15-40	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures**

<b>General advice</b>	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove from exposure, lie down. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products** None known based on information supplied.

## **8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses with side-shields.

**Skin and body protection** Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel	<b>Odor</b> <b>Odor threshold</b>	Amine No information available	
<b>Appearance</b>	Off-white to amber			
<b>Color</b>	No information available			
<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>		
<b>pH</b>	No information available			
<b>Melting point / freezing point</b>	No information available			
<b>Boiling Point/Range</b>	107.3 °C 225 °F			
<b>Flash point</b>	> 93.4 °C / > 200 °F			
<b>Evaporation Rate</b>	No information available			
<b>Flammability (solid, gas)</b>	No information available			
<b>Flammability Limit in Air</b>				
<b>Upper Flammability Limit</b>	No information available			
<b>Lower Flammability Limit</b>	No information available			
<b>Vapor pressure</b>	No information available			
<b>Vapor density</b>	No information available			
<b>Relative Density</b>	1.0			

Water solubility	Negligible
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content	Negligible
Density	No information available
Bulk density	No information available

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions. Hygroscopic.

**Possibility of hazardous reactions**

None under normal processing.

Hazardous polymerization      Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Ammonia. Hazardous decomposition products formed under fire conditions.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Product Information**      The product has not been tested

**Inhalation**      There is no data available for this product.

**Eye contact**      There is no data available for this product.

**Skin contact**      There is no data available for this product.

**Ingestion**      There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amine curing agent	= 2140 µL/kg ( Rat )	= 880 µL/kg ( Rabbit )	-
Amine curing agent	= 4290 µL/kg ( Rat ) = 4290 mg/kg ( Rat )	= 2500 µL/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms**      No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	No information available.
<b>MUTAGENIC EFFECTS</b>	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	944.00 mg/kg
ATEmix (dermal)	1,490.00 mg/kg

**12. ECOLOGICAL INFORMATION**Ecotoxicity

Harmful to aquatic life with long lasting effects

54.168 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Amine curing agent	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through	= 32 mg/L EC50 32: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Log Pow
Amine curing agent	-1.48

Other adverse effects

No information available

**13. DISPOSAL CONSIDERATIONS**Waste treatment methods

Waste Disposal Method Dispose of contents/container in accordance with local regulation.

Contaminated packaging Do not reuse container.

**14. TRANSPORT INFORMATION**DOT

UN-No	3267
Hazard Class	8 (Corrosive)
Packing group	III

ICAO

**UN-No** 3267  
**Hazard Class** 8 (Corrosive)  
**Packing group** III

**IATA**

**UN-No** 3267  
**Proper shipping name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**Description** A3

**IMDG/IMO**

**UN-No** 3267  
**Proper shipping name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**EmS No.** F-A, S-B

**RID**

**UN-No** 3267  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**Classification code** C7

**ADR**

**UN-No** 3267  
**Hazard Class** 8  
**Packing group** III  
**Classification code** C7  
**ADR/RID-Labels** 8

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute health hazard**

No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Amine curing agent	X	X	X

**U.S. EPA Label Information**

EPA Pesticide registration number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 3	Flammability 1	Physical hazards 0	Personal precautions B

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Atlanta, GA 30340

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Revision date 06-Nov-2015

Revision note  
No information available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS